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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/954,737 09/17/2001		Sierd Bron	GC634-2	7663	
5100 7:	590 03/07/2006	EXAMINER			
GENENCOR INTERNATIONAL, INC.			BURKHART, MICHAEL D		
ATTENTION: LEGAL DEPARTMENT 925 PAGE MILL ROAD			ART UNIT	PAPER NUMBER	
PALO ALTO,			1633		

DATE MAILED: 03/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)					
		09/954	737	BRON ET AL.					
Office Action Summary			er	Art Unit					
			D. Burkhart	1633					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHO WHICH - Extensi after SI - If NO p - Failure Any rep	RTENED STATUTORY PERIOD FOR IEVER IS LONGER, FROM THE Moons of time may be available under the provisions of X (6) MONTHS from the mailing date of this commercial for reply is specified above, the maximum state to reply within the set or extended period for reply by received by the Office later than three months at patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF of 37 CFR 1.136(a). In no unication. tutory period will apply and will, by statute, cause the a	THIS COMMUNICATION event, however, may a reply be tir will expire SIX (6) MONTHS from application to become ABANDONE	N. nely filed the mailing date of this commun D (35 U.S.C. § 133).					
Status									
2a)⊠ T 3)□ S	2a)⊠ This action is FINAL . 2b)☐ This action is non-final.								
Dispositio	n of Claims								
5) \(\) (6) \(\) (7) \(\) (8) \(\) (8) \(\) (7) \(\) (8) \(\) (7) \(\) (8) \(\) (7) \(\) (7) \(\) (7) \(\) (7) \(\) (7) \(\) (7) \(\) (8) \(\) (7) \(\) (8) \(\) (8) \(\) (9) \(\) (7) \(\) (7) \(\) (8) \(\) (9) \(\) (7) \(\) (8) \(\) (9) \(\) (7) \(\) (8) \(\) (9) \(\) (7) \(\) (8) \(\) (9) \(\) (7) \(\) (8) \(\) (9) \(\) (9) \(\) (7) \(\) (8) \(\) (9) \(\) (9) \(\) (9) \(\) (9) \(Claim(s) 3-11 is/are pending in the act a) Of the above claim(s) is/are claim(s) 3-6 is/are allowed. Claim(s) 7-11 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are objected to restrice are subject to restrice are specification is objected to by the drawing(s) filed on is/are: Applicant may not request that any objected to eath or declaration is objected to the oath or declaration is objected to	e withdrawn from one tion and/or election examiner. a) accepted or accepted or to the drawing(so the correction is required.	n requirement. b) objected to by the b) be held in abeyance. Se uired if the drawing(s) is ob	e 37 CFR 1.85(a). ijected to. See 37 CFR 1.					
Priority un	der 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachment(s									
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date									
3) Informa	or Draftsperson's Patent Drawing Review (Patent Drawing Review (Patent Drawing Review (PTO-1449 or No(s)/Mail Date			Patent Application (PTO-152)					

DETAILED ACTION

Receipt and entry of the amendments dated 3/8/2004, 5/26/2005, 9/6/2005, and 12/15/2005 is acknowledged. After entry of the amendments, claims 3-11 are pending and under examination.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 7-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. This is a new rejection necessitated by applicants' amendments to the claims.

Claims 7-11 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: providing for the *B. subtilis* TatAd/Cd protein in the claimed host cell or bacteria. The claimed host cells and bacteria are not limited to *B. subtilis*, but rather encompass the use of any host cell (e.g. bacterial, yeast, mammalian, insect, etc.). It is disclosed that in order for a polypeptide comprising the *B. subtilis* PhoD signal sequence to be secreted from a heterologous host cell such as *E. Coli*, *B. subtilis* TatAd/Cd must also be expressed. See pages 32-33 of the specification.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it

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pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 7-11 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for embodiments wherein the host cell is a bacterial cell overexpressing the *B. subtilis* TatAd/Cd proteins and wherein the PhoD signal sequence is the *B. subtilis* PhoD signal sequence, does not reasonably provide enablement for any other embodiments. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. This rejection is maintained for reasons of record and for reason outlined below.

Response to Arguments

Applicant's arguments filed 3/8/2004 have been fully considered but they are not persuasive. Applicants present no specific arguments regarding the outstanding enablement rejection, other than that the claims have been amended. However, the scope of the claimed host cells has not been amended, and remains much broader than that for which the specification is enabling. The claims embrace literally any host cell, therefore the claimed *B. subtilis* PhoD signal sequence must direct protein secretion in a broad genus of host cells in order to be commensurate in scope with the claimed subject matter. This is clearly not the case, as the specification teaches only *B. subtilis* as a suitable host for the claimed methods. Upon modification to express *B. subtilis* TatAd/Cd proteins, *E. Coli* was also found to be a suitable host cell for protein secretion mediated by the *B. subtilis* PhoD signal. See pages 7-10 of the previous Office Action (dated 11/5/2003) and pages 32-33 of the specification. Therefore, the instant specification is only found to be enabling for embodiments directed to bacterial cells

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wherein the *B. subtilis* PhoD signal sequence (i.e. Table 1) and *B. subtilis* TatAd/Cd proteins are used to mediate secretion of the desired protein sequence.

Conclusion

Claims 3-6 are allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael D. Burkhart whose telephone number is (571) 272-2915. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Nguyen can be reached on (571) 272-0731. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Michael D. Burkhart Examiner Art Unit 1633

SCOTT D. PRIEBE, PH.D PRIMARY EXAMINER